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packet-based or IP network. PNUT is a hardware-based network communication protocol that

commands and a set of custom commands. Logic components within the PLD-based devices

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transmitter, a packet parser, a packet generator, and core receiving and transmitting commands.

Various methods for exchanging and updating PNUT commands are disclosed. The methods

and systems of the present invention may be utilized to provide other functions, such as filtering,

logging, polling, testing, debugging, and monitoring, and may be implemented between a server

and a PLD-based device or solely between PLD-based devices.